

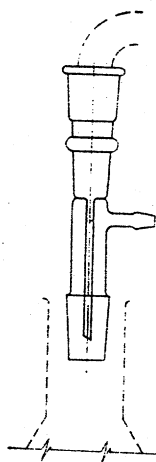
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Compact, Controllable Air Condenser for Distillation of Phenol

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During distillation, phenol crystallizes in a water condenser and may not completely condense in a conventional air condenser. The use of a commercially available vacuum take-off tube as an air condenser, as illustrated, insures complete condensation of the phenol as the cooling of the narrow inner tube can be easily regulated by altering the velocity of the air flow. The side arm of the tube is connected to a source of either compressed air or vacuum and the open end of the tube is not fitted tightly into the receiving flask, thus permitting the air to circulate.



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